

## CLAIMS:

1. A lamp (1, 21, 32) with a bulb (5, 6, 23, 24, 35) that generates visible light and infrared light, characterized in that the bulb (5, 23, 35) is provided with a coating (8) that reflects middle infrared radiation and is transparent to near infrared radiation.
- 5 2. A lamp as claimed in claim 1, characterized in that the bulb (5, 23, 35) has an elliptical shape.
3. A lamp as claimed in claim 1, characterized in that the coating (8) has an interference coating with 37 individual layers of  $\text{Nb}_2\text{O}_5$  and  $\text{SiO}_2$ .
- 10 4. A lamp as claimed in claim 1 and/or 2, characterized in that the bulb (5, 23, 35) is provided with a coating (10) that eliminates visible light.
5. A lamp as claimed in claim 1 and/or 2, characterized in that the bulb (5, 23, 15 35) is surrounded by an external bulb (6, 24) having a coating (10) that eliminates visible light.
6. A lamp as claimed in claim 4 or 5, characterized in that the coating (10) comprises  $\text{Fe}_2\text{O}_3$  and  $\text{SiO}_2$  layers.
- 20 7. A lamp as claimed in claim 4, 5 and/or 6, characterized in that the coating (10) is arranged in a lower area (26) of the bulb.
8. A headlamp (21, 22) with a lamp (1, 21, 32) as claimed in one or more of the 25 preceding claims 1 – 7.
9. A headlamp (31) with a reflector (34) and a lamp (32) as claimed in one or more of the preceding claims 1 – 3, characterized in that a lower reflector segment (39) is

provided with a coating (40) which reflects near infrared radiation and which is transparent to visible light.